QC-ABSTRACT

Name of Work:- : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no -04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	1:3:6	34.732.76 Cum	1	1	Cement
					Sand, Aggregates
2	TMT Steel	2.37 Tonne	1	1	-
3	M20	3.51 Cum	1	1	Concrete Cube Compressive Strength
4	M25	18.51 Cum	3	5	Concrete Cube Compressive Strength
5	CC Block-8'	55.63 Sqm	1	1	-
6	CC Block-4'	36.21 Sqm	1	1	-
7	CC Block-6'	23.31 Sqm	1	1	-
8	Ceramic Tiles	27.93 Sqm	1	1	-
9	CPVC Pipe	40 M	1	1	-
10	Paver Block	178.43 Sqm	1	1	-

Cubes	0-5 m^3	1set
	6-15 m^3	2set
	16-30 m^3	3set
	31-50 m^3	4 set
	Add 1set for every 50 Cum	

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-10

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ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/04/2022-2023 Date:22.02.2023

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of Work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no -04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Sample : : Cement (Dalmia 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : Feb - 2023

Date of Testing : 20.02.2023 to 22.02.2023

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

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FOR CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/04/2022-2023

Date 22.02.2023

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of Work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no -04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Steel Dia/Length : 8mm,10mm,12mm" TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test 22.02.2023

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation , percent on gauge length
1	TMT	8	0.399	518	608	1.17	19
2	TMT	10	0.618	524	612	1.17	22
3	TMT	12	0.889	539	635	1.18	20

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/04/2022-2023

Date 22.02.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of Work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no - 04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Date of Testing 22.02.2023

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	69	6.90	6.90	93.1	90-100
2.36	115	11.50	18.40	81.6	75-100
1.18	142	14.20	32.60	67.4	55-90
600 Micron	187	18.70	51.30	48.7	35-59
300 Micron	221	22.10	73.40	26.6	8-30
150 Micron	189	18.90	92.30	7.7	0-10

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/04/2022-2023 Date 22.02.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of Work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no - 04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Date of Testing 22.02.2023

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	201	4.0	4.0	96.0	95-100
10	2598	52.0	56.0	44.0	25-55
4.75	1899	38.0	94.0	6.0	0-10

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/04/2022-2023 Date 22.02.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of Work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no - 04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Date of Testing 22.02.2023

Material : Sand(Plastering) Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	22	2.20	2.20	97.8	95-100
2.36	28	2.80	5.00	95.0	95-100
1.18	26	2.60	7.60	92.4	90-100
600 Micron	85	8.50	16.10	83.9	80-100
300 Micron	269	26.90	43.00	57.0	20-65
150 Micron	542	54.20	97.20	2.8	0-15

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/04/2022-2023 Date 22.02.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of Work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no - 04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Date of Testing 22.02.2023

Material : Sand(Masonry) Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	23	2.30	2.30	97.7	90-100
1.18	22	2.20	4.50	95.5	70-100
600 Micron	68	6.80	11.30	88.7	40-100
300 Micron	254	25.40	36.70	63.3	5-70
150 Micron	510	51.00	87.70	12.3	0-15

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/04/2022-2023

Date: 24.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of the work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no -04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.04.2023	24.04.2023	8.025	380.9	16.93
2	17.04.2023	24.04.2023	8.145	372.6	16.56
3	17.04.2023	24.04.2023	8.098	398.1	17.69

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

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CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date: 15.05.2023

Job No.: CQCE/BBMP/AKHB/04/2022-2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of the work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no -04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.04.2023	15.05.2023	8.202	526.2	23.39
2	17.04.2023	15.05.2023	8.132	508.1	22.58
3	17.04.2023	15.05.2023	8.169	542.6	24.12

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/04/2022-2023

Date: 20.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of the work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no -04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.03.2023	20.03.2023	8.199	418.3	18.59
2	13.03.2023	20.03.2023	8.202	421.7	18.74
3	13.03.2023	20.03.2023	8.175	410.6	18.25

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/04/2022-2023

Date: 27.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of the work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no -04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2023	27.03.2023	8.163	416.3	18.50
2	20.03.2023	27.03.2023	8.009	421.7	18.74
3	20.03.2023	27.03.2023	8.202	409.9	18.22

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/04/2022-2023

Date: 03.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of the work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no -04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.03.2023	03.04.2023	8.022	613.9	27.28
2	06.03.2023	03.04.2023	8.160	609.5	27.09
3	06.03.2023	03.04.2023	8.098	618.1	27.47

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/04/2022-2023 Date: 10.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of the work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no -04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.03.2023	10.04.2023	8.132	635.2	28.23
2	13.03.2023	10.04.2023	8.202	618.9	27.51
3	13.03.2023	10.04.2023	8.185	624.1	27.74

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Authorised Signatory

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ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/04/2022-2023 Date: 02.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of the work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no -04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 29th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.04.2023	02.05.2023	8.188	635.9	28.26
2	03.04.2023	02.05.2023	8.210	621.5	27.62
3	03.04.2023	02.05.2023	8.096	608.1	27.03

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Job No.: CQCE/BBMP/AKHB/04/2022-2023 Date 13.05.2023

TEST REPORT ON CERAMIC TILES

*Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

*Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

*Name of Work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no -04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Technical Reference : IS: 13630 - 2006 - Method of Testing Ceramic Tiles
IS 15622 - 2006 - Specification of Ceramic Tiles

No. of Samples Tested : 05 (Five)

Date of Testing 08.05.2023 to 13.05.2023

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.2	48.2	48.42	Average 47, indivisual minimum 44 N/mm^2
2	300x300x5.3	47.9		
3	300x300x5.5	48.2		
4	300x300x5.6	49.2		
5	300x300x5.4	48.6		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.2	No visible effect	Class AA, min (13630 Part 8)
2	300x300x5.3	No visible effect	
3	300x300x5.5	No visible effect	
4	300x300x5.6	No visible effect	
5	300x300x5.4	No visible effect	

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ಜ.ಜ.ಎಂ.ಕ. ಬೆಂಗಳೂರು-10ನೆ

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/04/2022-2023 Date 22.02.2023

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP,

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of the Work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no -04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Date of Testing 22.02.2023

Size of Blocks 400mm*200mm*200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	32.6	406.2	5.08	2037.50	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	33.9	421.8	5.27	2118.75	
3	Block 3	32.1	409.9	5.12	2006.25	
4	Block 4	32.5	427.1	5.34	2031.25	

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/04/2022-2023 Date:09.05.2023

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town sub Division,BBMP, Bangalore.

Agency :**Sri.Akshay Kumar H B,** Contractor, Bangalore.

Name of Work : Construction of Toilets & Repaires to BBMP Shops at Attur Layout Main Road in ward no -04 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778.2007

Sample Identification: CPVC pipe 20mm dia

Date of Testing 08.05.2023

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	22.2	22.2 mm
2	Mean Outside Diameter (mm)	22.2	Min 22.1 mm Max 22.3 mm
3	Outside Diameter at Any Point (mm)	22.2	Min 22 mm Max 22.4 mm
4	Density	1485 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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